**Bruhat Bangalore Mahanagara Palike**

**Name of Work : Construction of Compound wall and drilling of borewell at Attur Government School building in Yelahanka Satellite Town Sub Division** **ward no:04**

**Estimate Cost** **5000000.00**

| Sl No | Description of Item | Mesurement | | | | | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | Unit | No | L | B | D | | | |
| 1 | Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. In lime mortar (PWD SR 2021-22 Vol -2 Pg 163 item No. 19.7.3) | | | | | | | | |
| | Existing Compound wall | Cum | 1 | 40 | 0.2 | 1.60 | 12.8 | | |
| | | | | | | | | | |
| | **Basic rate** | | | | | | | **789.00** | |
| | **Area weightage 10%** | | | | | | | **78.9** | |
| | **Total** | | | | | | **12.80** | **867.90** | **11109.12** |
| 2 | Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking to the appropriate disposal area as per direction of Engineer-in-charge.Dismental (PWD SR 2021-22 Vol -I Pg 165 item No. 19.19) | | | | | | | | |
| | Existing Gate | Sqm | 1 | 3.70 | | 1.50 | 5.55 | | |
| | | | | | Sub Total | | 5.55 | | |
| | | KG | **5.55** | | | 30.00 | 166.5 | | |
| | **Basic rate** | | 30Kg/Sqm | | | | | **2.00** | |
| | **Area weightage 10%** | | | | | | | **0.2** | |
| | **Total** | | | | | | **166.50** | **2.2** | **366.30** |
| 3 | Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.2) | | | | | | | | |
| | **SSM** | | | | | | | | |
| | Longer Direction | Cum | 1 | 58.5 | 0.9 | 0.9 | 47.385 | | |
| | | Cum | 1 | 7.8 | 0.9 | 0.9 | 6.318 | | |
| | Shorter Direction | Cum | 2 | 40.50 | 0.9 | 0.9 | 65.61 | | |
| | **Sump** | Cum | 1 | 3.3 | 3.3 | 1.8 | 19.0575 | | |
| | **Footing** | Cum | 66 | 1.2 | 1.2 | 1.5 | 142.56 | | |
| | **Basic rate** | | | | | | | **199.00** | |
| | **Area weightage 10%** | | | | | | | **19.9** | |
| | **Total** | | | | | | **280.93** | **218.9** | **61495.69** |
| 4 | KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification No. (PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4) | | | | | | | | |
| | **Sump** | Cum | 1.00 | 3.30 | 3.30 | 0.10 | 1.089 | | |
| | **Footing** | Cum | 66.00 | 1.20 | 1.20 | 0.10 | 9.504 | | |
| | Basic rate | | | | | | | 2561.00 | |
| | Area weightage 10% | | | | | | | 256.10 | |
| | **Total** | | | | | | **10.59** | **2817.10** | **29841.54** |

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|---|---|---|---|---|---|---|---|---|---|
| 5 | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates. Specification (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3) | | | | | | | | |
| | **SSM** | | | | | | | | |
| | Longer Direction | Cum | 1 | 58.5 | 0.9 | 0.15 | 7.90 | | |
| | | Cum | 1 | 7.8 | 0.9 | 0.15 | 1.05 | | |
| | Shorter Direction | Cum | 2 | 40.8 | 0.9 | 0.15 | 11.02 | | |
| | **Sump** | Cum | 1 | 3.3 | 3.3 | 0.15 | 1.63 | | |
| | **Footing** | Cum | 66.00 | 1.20 | 1.20 | 0.15 | 14.26 | | |
| | **Basic rate** | | | | | | | **5554.00** | |
| | **Area weightage 10%** | | | | | | | **555.4** | |
| | **Total** | | | | | | **35.86** | **6109.4** | **219058.65** |
| 6 | Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (Vol 2/ P No-9/ I no- 5.4 of PWD SR 2021-22) | | | | | | | | |
| | **SSM** | | | | | | | | |
| | Longer Direction | Cum | 1 | 58.5 | 0.9 | 0.75 | 39.49 | | |
| | | Cum | 1 | 7.8 | 0.9 | 0.75 | 5.27 | | |
| | Shorter Direction | Cum | 2 | 40.8 | 0.9 | 0.75 | 55.08 | | |
| | **Basic rate** | | | | | | | **5352.00** | |
| | **Area weightage 10%** | | | | | | | **535.2** | |
| | **Total** | | | | | | **99.83** | **5887.2** | **587733.89** |
| 7 | Providing and laying in position Reinforced cement concrete for all **Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.4.3 of PWD SR 2021-22) | | | | | | | | |
| | **For sump** | | | | | | | | |
| | Bottom slab | Cum | 1 | 3.30 | 3.30 | 0.20 | 2.18 | | |
| | Sump walls | Cum | 2 | 3.30 | 0.20 | 1.50 | 1.98 | | |
| | | Cum | 2 | 3.00 | 0.20 | 1.50 | 1.80 | | |
| | Cover slab | Cum | 1 | 3.00 | 3.30 | 0.20 | 1.98 | | |
| | Deduction | | | | | | | | |
| | Opening | Cum | -1 | 1.00 | 1.00 | 0.20 | -0.20 | | |
| | | | | | | | | | |
| | **For Footing** | | | | | | | | |
| | Footing | Cum | 66.00 | 1.20 | 1.20 | 0.35 | 33.26 | | |
| | | | | | | | | | |
| | Column | Cum | 66.00 | 0.20 | 0.20 | 0.90 | 2.38 | | |
| | | | | | | | | | |
| | **Plinth Beam for Compound Wall** | Cum | 1.00 | 58.50 | 0.20 | 0.30 | 3.51 | | |
| | | Cum | 1.00 | 58.1 | 0.20 | 0.30 | 3.49 | | |

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| | Cum | 2.00 | 41.90 | 0.20 | 0.30 | 5.03 | | |
| Basic rate | | | | | | | 5992.00 | |
| Add 8% For Shuttering | | | | | | | 479.36 | |
| **Sub Total** | | | | | | | **6471.36** | |
| Area weightage 10% | | | | | | | 647.14 | |
| **Total** | | | | | | **55.40** | **7118.50** | **394378.92** |

**8** Providing and laying in position Reinforced cement concrete for all **Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) **M25 Design Mix** Using 20 mm nominal size graded crushed coarse aggregates (Vol 2/ P No-17/ I no- 2.5.2 of PWD SR 2021-22)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Column above Ground Level | Cum | 66.00 | 0.20 | 0.20 | 2.00 | 5.28 | | |
| Basic rate | | | | | | | 6186.00 | |
| Add 10% For Shuttering | | | | | | | 618.60 | |
| **Sub Total** | | | | | | | **6804.60** | |
| Area weightage 10% | | | | | | | 680.46 | |
| **Total** | | | | | | **5.28** | **7485.06** | **39521.12** |

**9** Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately). (PWD SR 2021-22 Vol -II Pg 84 item no 11.32)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sump | Cum | | | | | 7.74 | | |
| | kg | Steel assumed 130 Kg/Cum of Concrete | | | | 1005.94 | | |
| Footing | Cum | | | | | 33.26 | | |
| | Kg | Steel assumed 100 Kg/Cum of Concrete | | | | 3326.40 | | |
| Column | Cum | | | | | 7.66 | | |
| | Kg | Steel assumed 180 Kg/Cum of Concrete | | | | 1454.64 | | |
| Beam | Cum | | | | | 12.02 | | |
| | Kg | Steel assumed 130 Kg/Cum of Concrete | | | | 1563.12 | | |
| Basic rate | | | | | | | 96.00 | |
| Area weightage 10% | | | | | | | 9.60 | |
| **Total** | | | | | | **7350.10** | **105.60** | **776170.56** |

**10** Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. ((PWD SR 2021-22 Vol- 1 P.No -7 / I.No -1.9)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Filling Available of Excavated Earth** | | | | | | | | |
| Earth Work Excavation | Cum | From Item No. 03 | | | | 280.93 | | |
| PCC | Cum | From Item No. 05 | | | | -35.86 | | |
| Filling in foundation with granite / trap broken metal | Cum | From Item No. 04 | | | | -10.59 | | |
| SSM Footing | Cum | From Item No. 06 | | | | -99.83 | | |
| Footing Concrete Quantity | Cum | From Item No. 07 | | | | -43.38 | | |
| Basic rate | | | | | | | 204.00 | |

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|---|---|---|---|---|---|---|---|---|---|
| | Area weightage 10% | | | | | | | 20.40 | |
| | **Total** | | | | | | **91.27** | **224.40** | **20481.21** |
| **11** | Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1A ) | | | | | | | | |
| | Excavated Earth | Cum | | | | | 293.73 | | |
| | Filling Available of Excavated Earth | | | | | | -91.27 | | |
| | | | | | | | | | |
| | **Basic rate** | | | | | | | **118.00** | |
| | **Area weightage 10%** | | | | | | | **11.80** | |
| | **Total** | | | | | | **202.46** | **129.80** | **26279.24** |
| **12** | Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A ) | | | | | | | | |
| | | t.Km | | 202.46 | | 1.280 | 259.15 | | |
| | | | | | | | | | |
| | **Basic rate** | | | | | | | **12.00** | |
| | 8Km 12*8 | | | | | | | **96.00** | |
| | **Area weightage 10%** | | | | | | | **9.60** | |
| | **Total** | | | | | | **259.15** | **105.60** | **27366.05** |
| **13** | Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.(PWD SR 2021-22 Vol - 2 Pg 17 item no. 6.33) | | | | | | | | |
| | **New Compound Wall** | | | | | | | | |
| | Longer Direction | Sqm | 2 | 55.1 | | 2.00 | 220.40 | | |
| | Shorter Direction | Sqm | 2 | 39.9 | | 2.00 | 159.60 | | |
| | | | | | | | | | |
| | **Deduction** | | | | | | | | |
| | **Gate** | Sqm | -1 | 5 | | 2.00 | -10.00 | | |
| | | | | | | | | | |
| | **Basic rate** | | | | | | | **1061.00** | |
| | **Area weightage 10%** | | | | | | | **106.1** | |
| | **Total** | | | | | | **370.00** | **1167.1** | **431827.00** |
| **14** | **Fabricating, providing and erecting in position Hot dip galvanised Gate.** Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate) | | | | | | | | |
| | For Gate, | Sqm | 1 | 5.00 | | 2.00 | 10.00 | | |
| | **Data Rate** | | | | | | | 12475.00 | |
| | **Total** | | | | | | **10.00** | **12475.00** | **124750.00** |

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|---|---|---|---|---|---|---|---|---|---|
| 15 | Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge (Vol 2/ P No-41/ I no- 8.3.1 of PWD SR 2021-22) | | | | | | | | |
| | **New Compound Wall Plastering** | | | | | | | | |
| | Longer Direction | Sqm | 4.00 | 55.10 | | 2.00 | 440.80 | | |
| | Shorter Direction | Sqm | 4.00 | 39.90 | | 2.00 | 319.20 | | |
| | Top Surface of Compound Wall | Sqm | 1.00 | 197.60 | | 0.15 | 29.64 | | |
| | Deduction | | | | | | | | |
| | Gate | Sqm | -1.00 | 5.00 | | 2.00 | -10.00 | | |
| | **Basic rate** | | | | | | | **299.00** | |
| | **Area weightage 10%** | | | | | | | **29.9** | |
| | **Total** | | | | | | **779.64** | **328.9** | **256423.60** |
| 16 | Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 46 item no 8.30) | | | | | | | | |
| | **Outside Painting for Office Building** | | | | | | | | |
| | Longer Direction | Sqm | 2 | 7.70 | | 3.00 | 46.20 | | |
| | Shorter Direction | Sqm | 2 | 5.40 | | 3.00 | 32.40 | | |
| | | | | | 9.00 | | | | |
| | Deduction | | | | | | | | |
| | D | Sqm | -1 | 1.2 | | 1.20 | -1.44 | | |
| | W | Sqm | -3 | 1.20 | | 1.20 | -4.32 | | |
| | V | Sqm | -2 | 0.45 | | 0.45 | -0.41 | | |
| | | | | | | | | | |
| | New Compound Wall | | | | | | | | |
| | Longer Direction | Sqm | 4.00 | 55.10 | | 2.00 | 440.80 | | |
| | Shorter Direction | Sqm | 4.00 | 39.90 | | 2.00 | 319.20 | | |
| | Top Surface of Compound Wall | Sqm | 1.00 | 197.60 | | 0.15 | 29.64 | | |
| | | | | | | | | | |
| | **Basic rate** | | | | | | | **136.00** | |
| | **Area weightage 10%** | | | | | | | **13.6** | |
| | **Total** | | | | | | **862.08** | **149.6** | **128966.42** |
| 17 | Finishing with Epoxy paint (two coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 48 item no 8.36.2) | | | | | | | | |
| | **Inside Painting for Office Building** | | | | | | | | |
| | Room | Sqm | 4 | 2.34 | | 3.00 | 28.08 | | |
| | | | 4 | 4.17 | | 3.00 | 50.04 | | |
| | Hall | Sqm | 2 | 4.90 | | 3.00 | 29.40 | | |
| | | Sqm | 2 | 4.50 | | 3.00 | 27.00 | | |
| | Roof | Sqm | 1 | 4.90 | 4.50 | | 22.05 | | |
| | | | 2 | 4.17 | 2.34 | | 19.52 | | |

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|---|---|---|---|---|---|---|---|---|---|
| | Deduction | | | | | | | | |
| | W | Sqm | -3 | 1.20 | | 1.20 | -4.32 | | |
| | V | Sqm | -2 | 0.45 | | 0.45 | -0.41 | | |
| | D | Sqm | -1 | 1.2 | | 1.20 | -1.44 | | |
| | D1 | Sqm | -2 | 1 | | 2.10 | -4.20 | | |
| | Black Board | Sqm | -1 | 4.9 | | 1.20 | -5.88 | | |
| | | Sqm | -1 | 1 | | 1.20 | -1.20 | | |
| | **Basic rate** | | | | | | | **138.00** | |
| | **Area weightage 10%** | | | | | | | **13.8** | |
| | **Total** | | | | | | **158.64** | **151.8** | **24081.64** |
| **18** | Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (PWD SR 2021-22 Vol -II Pg 133 item no 15.1) | | | | | | | | |
| | **For sump** | | | | | | | | |
| | Bottom Slab | Sqm | 1 | 3.3 | 3.3 | | 10.89 | | |
| | Sump walls | Sqm | 2 | 3.3 | | 1.8 | 11.55 | | |
| | | Sqm | 2 | 3 | | 1.8 | 10.5 | | |
| | For Office Building Terrace | Sqm | 1 | 7.7 | 5.4 | | 41.58 | | |
| | **Basic rate** | | | | | | | **745.00** | |
| | **Area weightage 10%** | | | | | | | **74.50** | |
| | **Total** | | | | | | **74.52** | **745.00** | **55517.40** |
| | | **New borewell** | | | | | | | |
| **19** | Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including econnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test (PWD SR 2021-22 Vol-V Page No.152, Item No.4 ) | | | | | | | | |
| | | Each BW | 1 | | | | **1.00** | 5655.10 | 5656.00 |
| | | | | | | | | | |
| | Basic Rate | **5141.00** | | | | | | | |
| | 10% Area Weightage | **514.10** | | | | | | | |
| | Total | **5655.10** | | | | | | | |
| **20** | Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimumworking of compressor for one hour (Excluding cost of casing pipes,collars, cap etc., complete ) (PWD SR 2021-22 Vol-V Page No.151, Item No.1 ) | | | | | | | | |
| | **0-50mtrs** | **Rmtr** | 1 | 50.00 | | | **50.00** | 319.00 | 15950.00 |

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|---|---|---|---|---|---|---|---|---|
| Basic Rate | **290.00** | | | | | | | |
| 10% Area Weightage | **29.00** | | | | | | | |
| Total | **319.00** | | | | | | | |
| | | | | | | | | |
| 50-100mtrs(PWD SR 2021-22 Vol-V Page No.151, Item No.1.2 ) | Rmtr | 1 | 50.00 | | | **50.00** | 400.40 | 20020.00 |
| Basic Rate | **364.00** | | | | | | | |
| 10% Area Weightage | **36.40** | | | | | | | |
| Total | **400.40** | | | | | | | |
| | | | | | | | | |
| 100-150mtrs (PWD SR 2021-22 Vol-V Page No.151, Item No.1.3 ) | Rmtr | 1 | 50.00 | | | **50.00** | 425.70 | 21285.00 |
| Basic Rate | **387.00** | | | | | | | |
| 10% Area Weightage | **38.70** | | | | | | | |
| Total | **425.70** | | | | | | | |
| | | | | | | | | |
| 150-200mtrs (PWD SR 2021-22 Vol-V Page No.151, Item No.1.4 ) | Rmtr | 1 | 50.00 | | | **50.00** | **493.90** | 24695.00 |
| Basic Rate | **449.00** | | | | | | | |
| 10% Area Weightage | **44.90** | | | | | | | |
| Total | **493.90** | | | | | | | |
| | | | | | | | | |
| 200-250mtrs (PWD SR 2021-22 Vol-V Page No.151, Item No.1.5 ) | Rmtr | 1 | 50.00 | | | **50.00** | 579.70 | 28985.00 |
| Basic Rate | **527.00** | | | | | | | |
| 10% Area Weightage | **52.70** | | | | | | | |
| Total | **579.70** | | | | | | | |
| | | | | | | | | |
| 250-300mtrs (PWD SR 2021-22 Vol-V Page No.151, Item No.1.6 ) | Rmtr | 1 | 50.00 | | | **50.00** | 613.80 | 30690.00 |
| Basic Rate | **558.00** | | | | | | | |
| 10% Area Weightage | **55.80** | | | | | | | |
| Total | **613.80** | | | | | | | |
| | | | | | | | | |
| 300-350mtrs (PWD SR 2021-22 Vol-V Page No.151, Item No.1.7 ) | **Rmtr** | 1 | 50.00 | | | **50.00** | 682.00 | 34100.00 |
| Basic Rate | **620.00** | | | | | | | |
| 10% Area Weightage | **62.00** | | | | | | | |
| Total | **682.00** | | | | | | | |
| **21** | Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m. prices include Collar-Medium duty. (PWD SR 2021-22 Vol-V Page No.154, Item No.32 ) | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| | | **Rmtr** | **1** | 60.00 | | | **60.00** | 2126.30 | 127578.00 |
| | Basic Rate | **1933.00** | | | | | | | |
| | 10% Area Weightage | **193.30** | | | | | | | |
| | Total | **2126.30** | | | | | | | |
| **22** | PVC pipes of 10 Kg/cm2 for 200mm (PWD SR 2021-22 Vol-V Page No.35, Item No.1188 ) | | | | | | | | |
| | | **m** | **1** | 10.00 | | | **10.00** | 1329.00 | 13290.00 |
| **23** | Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge (PWD SR 2021-22 Vol-V Page No.155, Item No.34 ) | | | | | | | | |
| | | **Each** | 1 | | | | **1.00** | 180.40 | 181.00 |
| | Basic Rate | **164.00** | | | | | | | |
| | 10% Area Weightage | **16.40** | | | | | | | |
| | Total | **180.40** | | | | | | | |
| **24** | Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. (PWD Electrical SR 2022-23 Vol-VI Page No.15, Item No.5.42.2 ) | | | | | | | | |
| | | **Sq.cm** | **1** | **1100.00** | **20.00** | | **22000** | **0.38** | 8360.00 |
| **25** | Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI Union confirming to IS 1239-II, 1991 with latest amendments if any (PWD SR 2021-22 Vol-V Page No.145, Item No.13.6 ) | | | | | | | | |
| | | Each | **1** | **1.00** | | | **1.00** | 240.90 | 241.00 |
| | Basic Rate | **219.00** | | | | | | | |
| | 10% Area Weightage | **21.90** | | | | | | | |
| | Total | **240.90** | | | | | | | |
| **26** | Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any. (PWD SR 2021-22 Vol-V Page No.146, Item No.15.6 ) | | | | | | | | |
| | | Each | **1** | **3.00** | | | **3.00** | 192.50 | 578.00 |
| | Basic Rate | **175.00** | | | | | | | |
| | 10% Area Weightage | **17.50** | | | | | | | |
| | Total | **192.50** | | | | | | | |
| **27** | Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for: (PWD SR 2021-22 Vol-V Page No.144, Item No.7.6 ) | | | | | | | | |
| | | Each | 1 | 3.00 | | | **3.00** | **240.90** | 723.00 |
| | Basic Rate | **219.00** | | | | | | | |
| | 10% Area Weightage | **21.90** | | | | | | | |
| | Total | **240.90** | | | | | | | |
| **28** | Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work. (PWD SR 2021-22 Vol-V Page No.163, Item No.38 ) | | | | | | | | |
| | | **Job** | 1 | | | | **1.00** | 6765.00 | 6765.00 |
| | Basic Rate | **6150.00** | | | | | | | |
| | 10% Area Weightage | **615.00** | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| | Total | 6765.00 | | | | | | | |
| 29 | Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work. (PWD SR 2021-22 Vol-V Page No.163, Item No.40 ) | | | | | | | | |
| | | Job | 1 | | | | 1.00 | 1485.00 | 1485.00 |
| | Basic Rate | 1350.00 | | | | | | | |
| | 10% Area Weightage | 135.00 | | | | | | | |
| | Total | 1485.00 | | | | | | | |
| 30 | Supplying of 1.1KV LT UG cable XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm (Ele SR 2019-20 P-No 40 I/No-6.4.4) | | | | | | | | |
| | | Rmtr | 1 | 45.00 | | | 45.00 | 150.00 | 6750.00 |
| 31 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm. (Ele SR OF 2019-20 P-No 41 I/No-6.5.1) | | | | | | | | |
| | | Rmtr | 1 | 45.00 | | | 45.00 | 11.88 | 535.00 |
| 32 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete cutting road surfaces(P.No - 41, I.No -6.6.3, KPWD Electrical SR 19-20) | | | | | | | | |
| | | Mtr | 1 | 45.00 | | | 45.00 | 82.00 | 3690.00 |
| 33 | Supplying and fixing of class A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm (P.No - 41, I.No -6.9.1, KPWD Electrical SR 19-20) | | | | | | | | |
| | | Mtr | 1 | 4.00 | | | 4.00 | 335.00 | 1340.00 |
| 34 | Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia (PWD SR 2021-22 Vol-V Page No.164, Item No.45 ) | | | | | | | | |
| | | Job | 1 | | | | 1.00 | 4125.00 | 4125.00 |
| | Basic Rate | 3750.00 | | | | | | | |
| | 10% Area Weightage | 375.00 | | | | | | | |
| | Total | 4125.00 | | | | | | | |
| 35 | Providing,Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work. 3½x6 Sqm (PWD SR 2021-22 Vol-V Page No.164, Item No.44.1) | | | | | | | | |
| | | Each | 1 | | | | 1.00 | 566.50 | 567.00 |
| | Basic Rate | 515.00 | | | | | | | |
| | 10% Area Weightage | 51.50 | | | | | | | |
| | Total | 566.50 | | | | | | | |
| 36 | Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5" (PWD Electrical SR 2022-23 Vol-VI Page No.4, Item No.5.6.6 ) | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 315.00 | 315.00 |
| 37 | Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings17.50 HP 30 stage | | | | | | | | |
| | | Nos | 1 | | | | 1.00 | 72126.00 | 72126.00 |

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|---|---|---|---|---|---|---|---|---|---|
| 38 | Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 17.50 HP - 120 LPM @ 308 m = 26 STG Outlet Dia - 2.00" (PWD SR 2021-22 Vol-V Page No.161, Item No. 19.6) | | | | | | | | |
| | | **Each** | 1 | | | | **1.00** | 78963.00 | 78963.00 |
| 39 | Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 25 HP 50 Stage | | | | | | | | |
| | | **Nos** | 1 | | | | **1.00** | 125677.00 | 125677.00 |
| 40 | Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) (PWD SR 2021-22 Vol-V Page No.162, Item No.33.1 ) | | | | | | | | |
| | | **Each** | 1 | 51.00 | | | **51.00** | 3355.00 | 171105.00 |
| | Basic Rate | **3050.00** | | | | | | | |
| | 10% Area Weightage | **305.00** | | | | | | | |
| | Total | **3355.00** | | | | | | | |
| 41 | Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 (PWD Electrical SR 2022-23 Vol-VI Page No.4, Item No.2.6.4 ) | | | | | | | | |
| | | **Mtr** | 1 | 642.00 | | | **642.00** | 242.00 | 155364.00 |
| 42 | Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP (PWD Electrical SR 2022-23 Vol-VI Page No.10, Item No.5.2.2) | | | | | | | | |
| | | **Nos** | 1 | | | | **1.00** | 8640.00 | 8640.00 |
| 43 | Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (PWD SR 2021-22 Vol-V Page No.162, Item No.27.1 ) | | | | | | | | |
| | | **Each** | 1 | | | | **1.00** | 1375.00 | 1375.00 |
| | Basic Rate | **1250.00** | | | | | | | |
| | 10% Area Weightage | **125.00** | | | | | | | |
| | Total | **1375.00** | | | | | | | |
| 44 | Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (PWD SR 2021-22 Vol-V Page No.162, Item No.28.1 ) | | | | | | | | |
| | | **Each** | 1 | | | | 1.00 | 1402.50 | 1403.00 |
| | Basic Rate | **1275.00** | | | | | | | |
| | 10% Area Weightage | **127.50** | | | | | | | |
| | Total | **1402.50** | | | | | | | |
| 45 | Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box. (PWD SR 2021-22 Vol-V Page No.162, Item No.32 ) | | | | | | | | |
| | | **per 3 Poles** | 1 | | | | **1.00** | 1375.00 | 1375.00 |
| | Basic Rate | **1250.00** | | | | | | | |
| | 10% Area Weightage | **125.00** | | | | | | | |
| | Total | **1375.00** | | | | | | | |

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| 46 | Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. (PWD SR 2021-22 Vol -I Pg No 6 item no 1.6.1) | | | | | | | | |
| | **For Connecting borewell** | **Cum** | 1 | 60.00 | 0.60 | 0.75 | 27.00 | | |
| | **Sub total** | | | | | | **27.00** | 517.00 | 13959.00 |
| | Basic Rate | **470.00** | | | | | | | |
| | 10% Area Weightage | **47.00** | | | | | | | |
| | Total | **517.00** | | | | | | | |
| 47 | Providing and installing at site of work 6 Kg/m2: 63mm(weight of pipe -0.662 kg) P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete. (PWD SR 2021-22 Vol-V Page No.140, Item No.13 ) | | | | | | | | |
| | **For Connecting borewell** | **mtr** | **1** | **60.00** | | | **60.00** | | |
| | **Sub total** | | | | | | 60.00 | 168.30 | 10098.00 |
| | Basic Rate | **153.00** | | | | | | | |
| | 10% Area Weightage | **15.30** | | | | | | | |
| | Total | **168.30** | | | | | | | |
| 48 | Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications (PWD SR 2021-22 Vol -I Pg No 7 item no 1.10) | | | | | | | | |
| | **For Connecting borewell** | **Cum** | 1 | 60.00 | 0.60 | 0.75 | 27.00 | | |
| | **Sub total** | | | | | | 27.00 | 134.20 | 3624.00 |
| | Basic Rate | **122.00** | | | | | | | |
| | 10% Area Weightage | **12.20** | | | | | | | |
| | Total | **134.20** | | | | | | | |
| | **BESCOM Charges** | Nos | 1 | | | | **1.00** | **20000.00** | 20000.00 |

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|---|---|
| Total of Other SR Items including GST Unit Rate | 20000.00 |
| Total of RWS 21-22,Electrical SR 19-20,21-22,PWD SR 2018-19 And 2021-22 Items | 1001613.00 |
| Bore \ Sub Total | 1021613.00 |
| Total Amount | 4236981.34 |
| GST Charges (18% of estimated cost) | 762656.64 |
| Miscellenious and rounding | 362.02 |
| Total Amount | 5000000.00 |

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum.

4) The estimate is based on S.R of 2021-2022, PWD Electrical SR 2021-22, Data Rates, Issused Rates and Corrigenda 1 & 2.

Administrative Approval
Accorded For 50.00 Lakhs.
Head of A/C P-3726
CER NO :...68..... Dt: 22/08/2022

TA CE (YNK)

Technical Sanction
Accorded For 50.00 Lakhs.
Head of A/C P-3726...
CER NO :...81..... Dt: 22/08/2022

Assistant Engineer
BBMP

Assistant Executive Engineer
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ಜಿ.ಬಿ.ಎ.ಎ. ಬೆಂಗಳೂರು-106

Executive Engineer
BBMP

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